



THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.

Founded in 1931

DECEMBER 2022
VOLUME 75, ISSUE 4

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HOME BREW RADIO CONSTRUCTION 1920s STYLE

TIM BARRETT, K9VB, RARA VICE PRESIDENT

This month at our monthly meeting we are in for a real treat. Andy Flowers K0SM will give us a presentation on how early radio amateurs breadboarded their own equipment in the 1920s. This was back in the day when there were no Yaesu or Kenwoods and if you wanted to get on the air you had to make your own radio. In many cases you also had to make your own components!

I first saw Andy do a similar presentation at an AWA Conference back in 2019 and have been looking for an opportunity to invite him to talk at RARA ever since. He will bring one or two examples of transmitters he has constructed to show us all. It promises to be a great evening so do join us, in person or online.

In person attendees will be able to participate in the raffle, as well as treats and the swap table.

Please join us on Wednesday, December 5th, 2022, 7:00PM at the Boy Scouts Headquarters at 2320 Brighton Henrietta Townline Road, Rochester, New York 14623 or online by registering at:

<https://attendee.gotowebinar.com/register/5728790259482593293>



K2JD

N2EH

W2EOC

RARA



YouTube

BOARDZ BUZZ

KARL HEINZ KREMER, K5KHK

Another year, another opportunity for me to write a board buzz article. By now, you probably know that most of my “buzzes” are about education and learning. So here is another one that follows the same pattern.

In my Technician license class, I tell my students two things: “Ham radio is the hobby of a thousand hobbies”, and “Ham radio is a hobby in which you can learn something new every single day for the rest of your life and never run out of new stuff to learn”. This is true for anybody in the hobby, regardless of how long we’ve been involved. By the way, did you know that the first recorded use of “case in point” was in 1647? See, you learned something new today. The club is currently in the middle of a four-session RARA Academy class about antenna modeling with 4NEC2, taught by Mike Sanchez KM2B. And even though I’ve played around with NEC2 in the past, I am still learning new things, which makes this application a lot more useful and more powerful for me. Never stop learning! Besides the direct benefits to you when you learn a new skill, studies have suggested that keeping your brain active may help to prevent dementia.

There are of course the RARA education offerings to help you with exploring new things, or to deepen your exposure to certain topics, but don’t stop there: Our hobby is evolving, and has been since it’s very beginnings, so there is plenty of new things to pick and choose from. Do you know how SDR (software defined radio) works? You don’t have to become proficient in writing code to process the digitized signals from an SDR receiver but understanding the basics of how that data is processed may just help you to get more out of your new (and very likely digital) radio. How about CW? If you are of a certain age (or more accurately, when you got licensed before a certain date), you had to learn CW, but did you ever use it after you’ve received your phone privileges? There seems to be a resurgence of CW, so if your skills have long been dormant, or if you’ve never tried it, why not jump back in and see if you can teach your brain a new language?

What helps me in such endeavors is for example to commit to do at least one thing a day for a year. So far this year, I’ve had at least one CW contact every day of the year. Last year, I missed maybe a handful of days due to travel. This year, I wanted to avoid that by learning something new: How to set up a station that can be operated remotely using duct tape, bailing wire and a Swiss army knife (or in other words, without spending any money). Set yourself some challenges and follow through. Your brain will thank you!

PS: And when you master a new skill, consider teaching others about it. We are always looking for topics and presenters for our RARA Academy sessions.

CALENDAR OF EVENTS

WEDNESDAY DECEMBER 7, 2022 - RARA Meeting In Person and On-Line
7:00 PM - AT THIS LINK

<https://attendee.gotowebinar.com/register/5728790259482593293>

THURSDAY DECEMBER 8, 2022 - RARA Board of Directors Meeting
6:30 PM - ONLINE

Email request for link to secretary@rochesterham.org

RARA MEMBERSHIP

TIM BARRETT, K9VB, RARA VICE PRESIDENT AND MEMBERSHIP SECRETARY

Our club has a very healthy membership, standing at 584 members on September 30th, the end of our membership year. Thanks to all of those who have already renewed but there are still a number of lapsed members, currently our membership stands at 469 so if you haven't done so yet, please renew your membership [here](#).

There are many membership benefits, here are just some of them:

- Only members can attend the RARA Annual Auction
- Free admission to the RARA Hamfest
- Access to license classes and discounts for license manuals
- Annual events such as the Picnic and Winterfest
- Membership points for contributing to club events

Being a member is also important, as your dues and a healthy membership count contribute to many RARA activities such as Rag subscription, monthly meetings, RARA Academy sessions, Elmer's Corner, [groups.io](#) mailing list, Facebook page, etc. Attracting good speakers is greatly helped when we can point to the size of our club, one of the largest ARRL affiliated clubs by the way. So, if you are not currently a member or have lapsed, please consider changing that!

I'd like to give a warm welcome to our new full members:

Galen Guyer K9FG
Jim Herbst KC2KNJ
Jim Hoffman KD2DTJ
Kenneth Lewis W1KAL
Nathan Winiarski N2NJW

Also, a big welcome to our new associate member, Lee Boorman.

Good luck to our Associate members in passing the tests and getting a license. When you do so, please let me know (membership@rochesterham.org) so I can add your call to the membership and upgrade you to full membership.

If you see any of our new members at a meeting or event make sure to introduce yourself and welcome them to the club!



EDUCATION

Karl Heinz Kremer, K5KHK, Education Coordinator

RARA LICENSE COURSES

Karl Heinz Kremer, K5KHK, License Class Coordinator

License Classes

The Technician license class for the fall of 2022 is complete. On a different page in this issue, you will find those listed who are newly licensed. Please be kind to those new to the hobby. We are planning our Winter session, starting in January. If you are interested in taking a license class or know anybody who would like to join the hobby, please let us know.

License Manuals

The current editions of the Technician, General and Amateur Extra license manuals are available to our members at a discount for \$25. For this discount, we unfortunately cannot deliver, and you would have to pick up the manual. If you are interested, please send an email to education@rochesterham.org

I usually have some license manuals with me at official RARA events (e.g. the monthly meetings).

RARA ACADEMY

We are at the halfway point of our “Antenna Modeling with 4NEC2” RARA Academy sessions. We learned about using variables in 4NEC2, and how to use the optimizer. It's not too late to join the class, we have a recording of the first two sessions. Let me know if you are interested in joining via our education email address: education@rochesterham.org.

We are still looking for input in what our next Academy session should cover. To make it easy for our members to provide such input, we created an online sur-

vey. Please go to <http://tiny.cc/RaRaAcademySurvey2022> and fill out the survey. If this short link should not work, you can also use this link: https://docs.google.com/forms/d/e/1FAIpQLSfe_RvJyAfc2BidWxePLvK1r_CjQosS1PV0Ua6m2zETiyPa-w/viewform.

RARA ELMERS' CORNER

Suzanne Bishopp, W2SUZ
Rich Bishopp, KD2UBJ
Elmers' Corner Coordinators

Happy December! Our last Elmers' Corner was great! We shared some fun QSO stories and talked about the best way to get a QSL card from the hams overseas. We talked about Raspberry Pi logging software, LOTW and Hamlib software. And of course, we talked antennas, this time the topic was random wire antennas.

Our next Elmers' Corner will be December 3rd, but if you can't make it, we do record each session. Just send me an email and I will share the link for the recording.

Zoom is easy and available for everyone. Grab a cup of coffee (or whatever you like to drink) and join us. We talk about everything and anything radio related. Bring your questions, your tips and tricks, or just come and join in the conversation.

The Elmers' Corner happens the 1st Saturday of every month, September – May, 10 a.m.-12 p.m. But if you have a question or need help before then, just let us know. Reach out to us at any time at elmerscorner@rochesterham.org, we will do our best to find the right Elmer to answer your question.

ELMERS' CORNER

1st Saturday of the month
December 3rd, 10AM – 12PM

Join Zoom Meeting

[https://us02web.zoom.us/j/83484674667?](https://us02web.zoom.us/j/83484674667?pwd=MG5DZXd6SFovN3lXa0NNTzM5UnBLUT09)
[pwd=MG5DZXd6SFovN3lXa0NNTzM5UnBLUT09](https://us02web.zoom.us/j/83484674667?pwd=MG5DZXd6SFovN3lXa0NNTzM5UnBLUT09)

Meeting ID: 834 8467 4667
Passcode: 786545

One tap mobile

+16465588656,,83484674667#,,,,*786545# US (New York)
+13126266799,,83484674667#,,,,*786545# US (Chicago)

Dial by your location

+1 646 558 8656 US (New York)
+1 312 626 6799 US (Chicago)
+1 301 715 8592 US (Washington DC)

+1 253 215 8782 US (Tacoma)
+1 346 248 7799 US (Houston)
+1 669 900 9128 US (San Jose)

Find your local number: <https://us02web.zoom.us/j/kiOoVkCMY>

MORSE CODE TRAINING

DAVE WILSON, WA2HOY, RXCWG COORDINATOR

The RXCW Group assists Hams wanting to learn Morse Code or to develop their CW skills.

BEGINNERS MORSE CODE ZOOM CLASSES

Peter Fournia, W2SKY, hosts Morse Code classes on Thursday evenings 7pm.

No experience required.

Join the group at any session.

Register at: pfournia@gmail.com

MORSE PRACTICE FOR ALL LEVELS ON ZOOM

Tim Brown, WB2PAY, hosts code practice for all levels on Thursday evenings at 7:30pm.

Register at: tjbrown@rochester.rr.com

Those wanting to start into CW QSOs and Morse Code can schedule coaching sessions on Zoom. Contact Peter Fournia, W2SKY for further details.

W1AW - <http://www.arrl.org/w1aw-operating-schedule>

W1AW On The Air CW Practice

Time	Mon	Tue	Wed	Thu	Fri
9 AM		Fast	Slow	Fast	Slow
4 PM	Fast	Slow	Fast	Slow	Fast
7 PM	Slow	Fast	Slow	Fast	Slow
10 PM	Fast	Slow	Fast	Slow	Fast

SLOW - 5, 7 1/2, 10, 13 and 15 wpm

FAST - 35, 30, 25, 20, 15, 13 and 10 wpm

FREQ(MHz) - 1.8025, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675, 28.0675, 50.350, 147.555

RADIO ELMERS

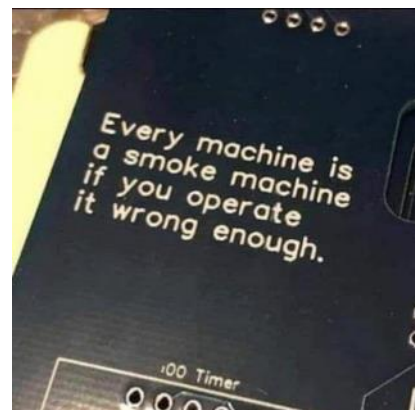
Name	Call	Area	Email
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Dave Carlson	N2OA	Batavia	kdcarlso@gmail.com
Lawrence Hill	N2AJX	Henrietta	lawrence.hill@rit.edu
Rich Hoffarth	K2AXP		rhoffarth2000@yahoo.com
Bill Kasperkoski	WB2SXY	Pittsford	wb2sxy@gmail.com
Don Kiser	AC2EV	N Greece	dkiser100@gmail.com
Karl Heinz Kremer	K5KHK	Chili	k5khk@khk.net
Tim Magee	WB2KAO	Greece	585-704-5747
Mike Moore	KC2NM		mikemoore@ieee.org
Peter Schuch	WB2UAQ	Perinton	pschuch@rochester.rr.com
Forest Shick	WA2MZG	Webster	fshick3@gmail.com
Dave Timmons	W2DST	N Greece	dstimmons@gmail.com
Steve Verzulli	KA1CNF		verzulli@yahoo.com
Dan Waterstraat	W2DEW	Henrietta	higreen@rochester.rr.com

CW ELMERS

Name	Call	Area	Email
Ned Asam	W2NED	Pittsford	w2ned@frontiernet.net
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Pete Fournia	W2SKY	Penfield	pfournia@gmail.com
Bill Hopkins	AA2YV	Brighton	whopkin4@naz.edu
Bob Karz	K2OID	Webster	rkarz@rochester.rr.com
Joe Rowe	AG2Y	Webster	ag2y@rochester.rr.com
Harry Williams	KF2TV	Kingsland, GA	harryw7872@gmail.com

PROFESSOR'S PIC(k)s

JEFF SONSTEIN, WA2RRB



[Root Access to Starlink Terminal](#)

[AI Learns Coral Reef 'Song'](#)

[A Paper Computer](#)

[Serious Fun In 20 Minutes](#)

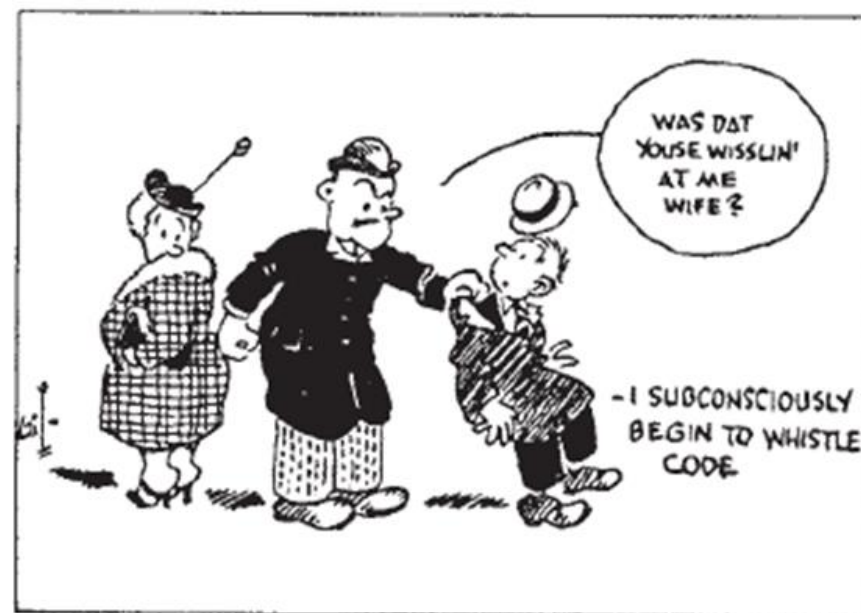
[CQ Santa](#)

DECEMBER RAFFLE PRIZES

- Yaesu FT-4X
- Pass Your Amateur Radio Extra Class Test
 - Broadcast Band FM Radio Kit
 - Ham Radio Deluxe T Shirt (XXL)
- Heil Sound Tote

Coming in January

- RSGB Radio Communications Handbook



Reprinted Courtesy February 1941 QST

PUBLIC SERVICE REPORT

MIKE MOORE, KC2NM, PUBLIC SERVICE COORDINATOR

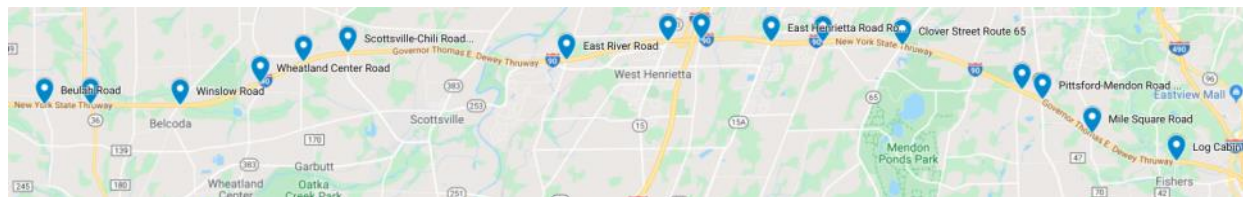
The 46th Annual Pumpkin Patrol, aimed at preventing Halloween pranks and protecting motorists along the Thruway, involves volunteers from local organizations from numerous counties throughout the state. Troopers and volunteers, posted on highway bridges and overpasses, successfully prevented incidents of property damage or mischief. Here in Monroe County, our RARA contribution to this statewide effort was conducted on the 16 Monroe County Thruway bridges on the evenings of Sunday, Oct. 30 and Monday, Oct 31. There was no vandalism incident reported either night in Monroe County. This year, communications were conducted on the WR2AHL repeater 145.11 MHz located on Worden Hill atop Bristol Mountain. This repeater is well known to all of us and the repeater antenna is the highest in this area @ 2325 Ft. ASL. This Finger Lakes site overlooks Monroe, Ontario, Wayne, Livingston, Yates and surrounding Western NY counties, with mobile coverage as far north as Watertown and HT coverage to the cities of Rochester, Canandaigua and more. We thank Mike, W2HYP and Jim W2COP for their hard work providing this and sister repeaters that make communications events like Pumpkin Patrol successful.

Ed K1EM did a great job organizing the event! He has sent each of the participants a "Thank You" note, reported the service hours to Tim K9VB, and has requested the recognition certificates from Troop T of the NYS Troopers. In addition to providing us an opportunity to hone our operating skills in a real-world service situation, a side benefit of this event is the manpower savings for law enforcement organizations because we provide the bridge monitoring role. Participants were:

AA2FO, AB2NM, AD2DB, K1EM, K2UW, K2ZH, K4GWA, KA2WNS, KC2KPL, KC2MZP, KC2NM, KD2EHW, KD2PQP, KD2RAF, KD2TWM, KD2UBJ, KD2ZLP, N2BNE, N2IZX, N2PHB, NS2B, W2SUZ, WA2CHV, WA2FTV, WB2KAO, WB2QCJ, WM2W

Most of the hams provided bridge duty but special thanks go to Erin, AA2FO, Tim, WB2KAO and Lynn, N2IZX who served as net control operators. Goodie Patrol duties were provided by Chuck, KC2KPL, Diane KC2MZP, and Ed, K1EM. Thank you for making this event successful!

To add some additional fun for Pumpkin Patrol participants, our friends in the Rochester VHF Group organized a QSO party to be held during a portion of the service event. This was not a contest but there were separate operating recommendations for Home Stations and Pumpkin Patrollers. The idea was for stations to contact each other on simplex between call ups on the Pumpkin Patrol net. Thank you Ev, W2EV and the Rochester VHF Group for adding to our fun. For additional information about the NYS Thruway see [Thruway Highlights](#). For information about the WR2AHL repeater see [WR2AHL 145.11 REPEATER](#). Upcoming events in the public service calendar are listed in the following table. Visit https://rochesterham.org/public_service.htm for more information and to volunteer.



Please mark your calendars for our upcoming RARA Public Service Events

Event	Location	Day	Date
Tour de Cure	Xerox Campus Webster	Saturday	June 10, 2023
Fairport Lift Bridge Regatta	Erie Canal – Fairport, NY	TBD	TBD
JOTA / Ham Radio Demon-	Camp Cutler, Naples, NY	TBD	TBD
Pumpkin Patrol	Overpasses of the New York State Thruway	Monday and Tuesday	Oct. 30-31, 2023

DEMO DAY AT RADIO CENTRAL

PAUL CONAWAY, KD2DO

On a chilly but thankfully dry Saturday Morning Nov 12 there was a show-n-tell about how to deal with an internet outage. Three groups came out to show their wares in the parking lot of the Monroe County Radio Center on Cobb's Hill.

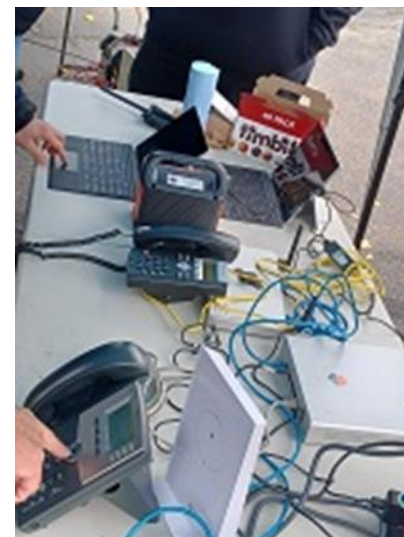


Three Demonstration Tables: Satellite – Winlink Global Radio Email on HF – Winlink on VHF

On the table at the left several folks from the “Internet Technology Disaster Resource Center” (ITDRC) showed their easily deployed system consisting of a satellite antenna, a special transceiver, internet routers, switches and telephones using Voice Over Internet Protocol (VOIP). Their table, mostly obscured in the above photo is more clearly shown in the smaller photo at the right. They are able to deploy systems like this to disaster areas and establish communications to and from command centers.

The table in the center is sponsored by the Antique Wireless Association and shows off their Educational Amateur Radio Station (EARS) which is part of AWA's educational outreach programs. Using Winlink and a battery powered HF transmitter (a Kenwood TS-2000). It demonstrates to middle school students how to send text messages and Email without using a cell phone. Attached to a simple 40m dipole made from 2 Ham-Sticks, we sent messages to Philadelphia, where in this exercise scenario, they did have internet capability.

The table at the right (in the group photo) demonstrated how Winlink can be used in a VHF operation using just a small handheld transceiver. With this setup and a small portable 3 element beam. Peter Fournia was able to make contact with other Winlink operators in the area using a Peer to Peer type of connection that does not use the internet.



Both HF and VHF Winlink gateways are available in the Rochester area. Look for the VHF beacon at 20 minute intervals on 145.03. At the present time if there is an internet outage that affects these machines they may not be usable. Work is underway to improve both gateways against internet outages. On the HF side a Hybrid mode allows forwarding by radio only. On the VHF side, the machine can serve as a “digipeater” for local operations.

All tolled, these groups demonstrated three very usable means to communicate from a disaster area. Each used a different frequency band with its unique speed and band spread and distance capabilities.

MONROE COUNTY ARES/RACES AMAZON SMILES PARTICIPANT

TOM WOOD, KD2IOB, MCARES/RACES TREASURER

Monroe County ARES/RACES, a 501(c)(3) organization, is now participating in the Amazon Smiles program. This means shoppers on Amazon can identify our organization to receive 0.5% from their eligible purchases. Even small contributions can help MCARES/RACES as we do not have a steady revenue stream.

Many members of RARA are also aligned with MCARES/RACES and vice-versa. Outside of meetings, our two organizations mostly interact at Public Service events. So, most of you know our main mission at MCARES/RACES is emergency communication using our ham radio skills. We sometimes drill with the American Red Cross and FEMA, even if we are not always a direct participant in their scenarios, we hold simultaneous drills to help us prepare for disaster communication.

I hope you will consider making us your charity on Amazon. Follow this link: <https://www.amazon.com/smile-amazon/s?k=smile.amazon>, choose **Monroe County Amateur Radio Emergency Service Inc** as your charity and shop at <https://smile.amazon.com/>. The prices are the same for Amazon Smile products as the regular Amazon marketplace, so you are not paying extra—Amazon is making the 0.5% donation.

One last note, we are always welcoming to new members. So, if you want to use your hobby to help the community come check us out. We have an in-person and zoom meeting this Thursday with a Winlink presentation. Contact secretary@monroecountymcomm.org for more information.

ITS BEEN A LONG TIME

FOREST SHICK, WA2MZG

Now I'm, retiring as Rag Editor. (Borrowed from The Beatles – Wait)

This issue of the Rag marks the end of my 9th year as editor – 108 issues of the Rag plus 5 Hamfest Editions of the Rag.

Before I go too far – THANK YOU to everyone who has contributed to the RAG in any way: authors, club announcements, proofreaders, web masters, SK resources and more. Without ALL of you the RAG would be a 4-page newsletter.

I feel 9 years has been long enough – time for some new ideas.

This summer I realized that my enthusiasm for editing the Rag was almost gone. I was burned out!

In January 2014 Marisa Ashour, KC2VMM and I became the Rag editors. Somewhere along the way Marisa had to focus on graduating and gave up her editing duties.

Marisa redesigned the look of the Rag.



December 2013



January 2014



February 2014

I tried a variety of ideas to enhance the Rag: Word Search puzzle, Crossword puzzle, Video enhancement for article, cartoons, featured Ham Radio related web site links – I may have forgotten some changes.

The best change was moving the layout from portrait to landscape.

We see the world in landscape (our eyes are laid out horizontal not vertical). Most computer / laptop monitors are landscape. TV's are landscape, digital clocks are landscape. LCD displays on many pieces of equipment are landscape. Most of our rigs are laid out landscape.

You can easily see a complete page of the Rag in landscape, on your computer monitor.

For someone who would like to become the editor, it is an easy job – time consuming but easy. You also must like to read and reread articles. When the time comes for you to take over – I won't walk away and let you sink or swim. I will help you get started. I have documented much of what I do. I use Microsoft Publisher but you can use whichever program you are comfortable with, although my instructions are for Publisher.

These past 9 years as editor of the Rag have been GREAT. It is time for someone else to have the fun.

I am not walking away after this issue but will continue until someone is available to takeover.

For all the contributors to the Rag and to all the people that have provided positive feedback – THANK YOU!!!

One last thought – the last person that I received positive feedback from said – this is not a newsletter, it is a magazine. (Maybe the best feedback)



NOVEMBER MEETING PHOTOS

PROVIDED BY DAVE WILSON, WA2HOY



INFORMATION TECHNOLOGY DISASTER RESOURCE CENTER

JON DICKASON, N2JAC

Saturday 11/12 the ITDRC came to town for an exercise. The Information Technology Disaster Resource Center, a non-profit disaster recovery group, responds to communities affected by floods, hurricanes and other disasters, to restore internet and IT infrastructure for first responders and community aid organizations. Volunteers from the New York state ITDRC region came to practice providing internet and phone service to an affected area. With a starlink satellite dish and battery power, they established a connection to the orbiting satellites for internet, and used routers and wireless access points to broadcast a wifi signal for smart phones and laptops. They connected voip (voice over IP) phones to simulate a phone bank for an agency like local government to provide services to residents. ARES was invited to participate, and they setup HF and VHF winlink stations to demonstrate email with no internet. By sending their digital signal to a distant gateway station that does have internet, messages can be exchanged with the distant email user's normal email app. This was a great opportunity for ITDRC and ARES to meet and demonstrate our skills to each other.



RAGS OF THE PAST

ED GABLE, K2MP, RARA HISTORIAN

20 Years Ago, December 2002

In this space last month we told of a 20 year old repeat in Meeting subjects, those being the annual RARA Auction that spanned two decades or more. This month, but again 20 years apart, we announce another joint RARA/Kodak ARC meeting. George Masny, KA2GPJ, a RARA Board member, wrote to inform members that this joint meeting would feature John Gilly, W3OAB and Jeff Tewskbury, N2JQR speaking about and demonstrating a new computer enhanced weak signal mode. The free computer program called WSJT or "Weak Signal Communications by K1JT" and all it takes to work is a USB transmitter with a sound card interface. As originally released the software enabled two recognized modes; PSK441 used by VHF'ers for meteor contacts and then JT44 Mode used for tropo-scatter and EME QSO's. Later, other new modes were tried that turned out to be outrageously popular and now various forms of FT8 are used world-wide on all bands HF and higher. John and Jeff performed at Kodak's Theater on the Ridge, 200 Ridge Road West, at 8:00 p.m. This issue brought more pen to paper as George Masny added his comments on some less than gentlemanly words heard too commonly on the bands. George quoted parts of FCC Rules and Regulations, Part 97.1, to add emphasis. RARA President MaryKay Vesco, KC2DPG, in her The Prez Says column, thanked Dick Goslee K2VCZ (sk) Brad Allen KB2CHY (sk) Greg Michels KC2GXV and Ed Gable K2MP, for their recent help with the RARA Auction last month. MaryKay continued with her praise of Dick Goslee as it took more than two hand's worth of finger counting to figure out he has served as RARA's Treasurer for sixteen years. MaryKay closed with reminders of upcoming events being the Holiday Science and Technology Day at RIT, and the Science Exploration Days at St. John Fisher College. Richard Goslee, K2VCZ (sk) had three articles in this Rag where he informed members that (1) Any changes to the printed RARA Directory had to be in by December 31st and (2) RARA is seeking applications for their Scholarship program, in memory of W2WPF, W2OMV and K4VOS, and applications can be had at any meeting or can be downloaded from the website, and (3) As Treasurer. Richard thanked each, by name, of the over seventy hams that included a cash donation to RARA while sending in their dues money. In this issue RARA announced the date and name for the 2003 Hamfest. It will be three days on May 30, 31 and June 1st and the name; ready, aim, write "Rochester Hamfest, Computer Hobby Show and ARRL Atlantic Division Convention." It was in this publication that you learned the new website address for RARA as www.rochesterham.org. That is still good today. The Rochester Radio Repeater Association (RRRA) via Brad Allen KB2CHY (sk), announced their December Dinner bash as being December 13th, 7:30 pm, at Runds on the Ridge. With regret it was announced that Hugh Craigie WA2EWB, Jack Struthers W2OZY and Donald Collins WB2LEG were reported as silent keys. From the Want Ads you could buy an Alumina 50 foot tower and Yaesu G1000SDX rotor from N2MLG. Sherwood and Sherwood Attorneys, (Sherwood Snyder W2KFU (sk) and Son, remained a long time commercial advertiser.



the RARA RAG

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VOL. 55 DECEMBER 2002 NO.4

SEASONS GREETINGS TO ALL

DECEMBER MEETING

George Masny KA2GBJ

The traditional joint RARA/Kodak meeting, scheduled for Friday, December 6th, will feature a simulated demonstration by John Gilly, W3OAB/2 and Jeff Tewskbury, N2JQR, of two new "computer enhanced" communication modes used primarily by VHF DXers. These modes take advantage of the digital signal processing capability of the "common" PC sound card; paired with a free shareware computer program called WSJT. You read that correctly - FREE! - No investment of funds required if you have a PC with a sound card!!!

VHF DX consists of two distinct types of QSOs, one being extremely sporadic (caused by ionized meteor trails) and the other being operation near or below the noise floor (EME etc.). In either case, a specialized mode is used to deal with the particular needs of the type of DX.

WSJT stands for "Weak Signal communications, by K1JT". This program currently supports two digital signaling modes. The first, FSK441, is designed to support communication using the very brief "pings" from meteor trails in the ionosphere. The second mode, called JT44, is designed for extremely weak but roughly constant signals such as those found on troposcatter, ionoscatter, and Earth-Moon-Earth (EME) paths. Both modes provide

Continued page 9

Lest we forget...

A comment from George Masny KA2GPJ

The squabbles one occasionally hears on the air seem to indicate that we to forget the basic reasons for the existence of amateur radio. Notice particularly paragraph e) and remember that it is hard to enhance international goodwill if we do not have it for our own neighbors!

FEDERAL COMMUNICATIONS COMMISSION
PART 97
AMATEUR RADIO SERVICE
-Subpart A--General Provisions
§97.1 Basis and purpose.

The rules and regulations in this part are designed to provide an AMATEUR RADIO SERVICE having a fundamental purpose as expressed in the following

Continued page 9

RaRa Meeting

December 6, 2002
8:00 PM
Kodak's Theater On The Ridge
200 Ridge Road West
WSJT
Presented by
John, W3OAB and Jeff, N2JQR

Just like it was this year, the December meeting some twenty years ago was a joint meeting with the Kodak Park Amateur Radio Club. We were happy to present the speaker, Mr. Paul Plack WA2TOX, from the Buffalo area, who spoke of something not common here, and that was ten meter FM activity for local chit-chat. The availability of cheap surplus rigs was a factor in Buffalo area hams migrating to ten meters. In his President Column, Ed Holdsworth N2EH (sk), with much pride in his choice of words, told members of a 14 man work crew, made up of RARA volunteers, who moved the K2JD tower and antennas from the Iola Complex roof to K2JD's new location high atop the eleven story building at 111 Westfall Road. The new location and a seven element, five band HF yagi really made K2JD a powerful voice on the bands. The RRRA Columnist wrote to say Mr. Bob Phillips WA2MXL, would be their next meeting speaker with the topic of Meteor Scatter. Also for the RRRA was their Technical Advisor Ron Jakubowski K2RJ, who told of plans for a new Voting Receiver on their 28/88 repeater. An all new repeater on 223.98 Mhz was announced by its owner/operator Mr. Mike Calprood N2DVH. And more repeater news came forward with Ray Williams WA2RYT, announcing he is activating a new Simplex repeater on 146.46 Mhz for use with Packet Radio. One of the new WARC bands became available, much to the pleasure of CW operators, as 30 meters became a new shared Ham Band allowing 250 watts output using CW or RTTY. In reprint from the W5YI Newsletter, it was told that ham radio operations would be attempted by NASA on the next Space Shuttle flight using 2M FM. Many NASA Astronauts have already obtained at least Technician class ham licenses and a station license has been obtained for the Space Shuttle. QTH on the License has not been revealed but the USPS was quick to say they're not delivering Post Card QSL's to the Shuttle's front door, we're told! Writing for the Rochester VHF Group, or "Groupers" as they like to be called, were Bill Gillette WB2KIW and Dan Pedke KW2T, who were getting a familiar message out for getting on the January ARRL VHF Contest and helping out your local very competitive club. Irv Goodman AF2K, then RARA's Membership Chairman, says sign up or renew membership now and also receive the newest printed copy of the RARA Directory containing 2,550 local hams listed by callsign and last name. There were no Silent keys listed but from the Want Ads you could buy a new in the box Icom 730S transceiver from Bob Lauzon K2RL. Radio World from Oriskany, NY remained a long time advertiser.

The RaRa Rag

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INCORPORATED

VOL. 35

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NO. 4

DECEMBER 3rd MEETING:

KODAK PARK — 10 METER FM

It's not too difficult to work VKs and ZLs on 10 meters. How about doing it using FM? Maybe one could actually understand what they are saying! How running an autopatch to Los Angeles from your car to call your long lost cousin! Can I do that?

The answers to these and other questions will be given at our December meeting by Paul Plack, WA2TOX. A former Rochesterian (as Gannett is so fond of saying), Paul now resides in Buffalo where he is active with the large contingent of 10 meter FM aficionados there. He'll be talking about simplex and repeater operations as well as equipment including some very inexpensive ways to go.

Our hosts for the December 3rd meeting will be the Kodak Park Radio Club. The meeting will start promptly at 8 p.m. in the Camera Club auditorium in the Recreation Building at 200 West Ridge Road. There will be plenty of parking space available in the lots directly across Ridge Road. See you all there.

IS THIS YOUR FINAL 'RAG'?

Reminder: Have you overlooked renewing your Club membership? If so, your name will be automatically removed from the RAG mailing list on December 31st when the renewal "grace period" runs out. Please check your membership card, and if it has expired, renew immediately by mail, or see the membership chairman at any RaRa, VHF Group, RRRA or RDXA meeting. Additional applications available by merely calling 671-4430. Delivery of the January RAG to your mailbox can be assured only if you renew right away.

The 1982-83 edition of the RaRa Directory is the best yet, containing over 2550 area listings. Full Members can obtain one at any of the meetings; Associates are eligible for theirs upon becoming licensed. Directories can also be picked up at K2JD and at 515 Drumm Road in Webster.

I. J. Goodman, AF2K

PRESIDENT'S COLUMN

by Ed Holdsworth, N2EH

I am happy to be able to write at this time that we have finally accomplished the removal of our tower from 350 East Henrietta Road and it is now located atop the building at 111 Westfall Road. A work party on November 6th consisting of K2UW, K2KGE, WA2UGE, KA8IGS, K2RJ, W2DHV, WB2UTI, WB2DJY, WB2JSD, W2LC, KA2KHV, KA2POK, KA2JRK, N2EH and Steve Gulak of O.E.P. removed the old tower and successfully hoisted it to the roof of 111 Westfall Road.

The following Saturday, November 13th, another work party consisting of WA2UGE, K2RJ, KA2POK, KA2JRK, N2EH and Steve Gulak were able to replace the existing tower on 111 Westfall with the stronger tilt-over one moved there the week before. By doing this, the tower height was also increased by 15 feet.

The November 13th work party braved almost all weather conditions including heavy winds, snow, cold and damp weather to finally raise the antennas back to an upright position just as darkness settled in.

The committees concerning a new meeting location and computer applications are still hard at work. There have been several good suggestions for meeting places and we will make a decision prior to the January meeting. A report on the computer system will be ready for the January meeting and will be presented at that time.

I want to extend to each and every one of you a sincere wish for a happy holiday season and a healthy and happy new year!

RDXA: DECEMBER HOLIDAY

by Rick Berg, KS2F

The RDXA will not hold a December meeting. The next regularly scheduled meeting will be on Tuesday evening, January 18, 1983. Until then may Santa's visit leave you with some new ones, some rare ones, and some spare ones (in case of no QSL)!

RARA CALENDAR

TIM BARRETT, K9VB, MEMBERSHIP SECRETARY

December 2022						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.205 USB Walk for the Bacon QRP Contest CW Ops Test NRAU 10m Activity Contest RTTYOPS Weeksprint NCCC Sprints SKCC Sprints Europe QRP Fox Hunt	2 K1USN Slow Speed Test	3 ROC City Net 28.405 MHz, 9:00p ARRL 160M Contest UFT Meeting Wake-up1 QRP Sprint PRO CW Contest FT Roundup
4 ARRL 160M Contest UFT Meeting Wake-up1 QRP Sprint PRO CW Contest FT Roundup K1USN Slow Speed Test	5 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB ICWC Medium Speed Test OK1WC Memorial WW Sideband Activity Contest ARS Spartan Sprint	6 RTTYOPS Weeksprint Phone Weekly Test QRP Foxhunt	7 RaRa Monthly Mtg BSA & ONLINE 7pm ROC City Net ~3.830 MHz, 7 pm A1 Club AWT CWOps Test VHF/UHF FT8 Activity Contest Mini Test 40, 80	8 RARA BoD Mtg 6:30pm ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.205 USB RTTYOPS Weeksprint NCCC Sprints EACW Meeting QRP Fox Hunt	9 K1USN Slow Speed Test	10 ROC City Net 28.405 MHz, 9:00p RaRa Academy ONLINE PODXS 070 Low Band Sprint ARRL 10M Contest TRC Digi Contest SKCC Weekend Sprintathon ARI 40/80 Contest International Naval Contest
11 PODXS 070 Low Band Sprint ARRL 10M Contest TRC Digi Contest SKCC Weekend Sprintathon ARI 40/80 Contest International Naval Contest QRP ARC Homebrew Sprint CQC Colorado Snowshoe Run K1USN Slow Speed Test	12 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB ICWC Medium Speed Test OK1WC Memorial WW Sideband Activity Contest	13 RTTYOPS Weeksprint Phone Weekly Test QRP Foxhunt NAQCC CW Sprint	14 ROC City Net ~3.830 MHz, 7 pm A1 Club AWT CWOps Test VHF/UHF FT8 Activity Contest Mini Test 40, 80	15 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.205 USB RTTYOPS Weeksprint NCCC Sprints NTC QSO Party QRP Fox Hunt	16 K1USN Slow Speed Test AGB Party Contest	17 ROC City Net 28.405 MHz, 9:00p License Testing at RIT ARRL Rookie Roundup, CW RAC Winter Contest Stew Perry Top Band Challenge Croatian CW Contest OK DX RTTY Contest Feld Hell Sprint
18 ARRL Rookie Roundup, CW Stew Perry Top Band Challenge Croatian CW Contest Run for the Bacon QRP Contest K1USN Slow Speed Test	19 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB ICWC Medium Speed Test OK1WC Memorial WW Sideband Activity Contest	20 RTTYOPS Weeksprint Phone Weekly Test QRP Foxhunt NAQCC CW Sprint	21 ROC City Net ~3.830 MHz, 7 pm A1 Club AWT CWOps Test VHF/UHF FT8 Activity Contest Mini Test 40, 80	22 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.205 USB RTTYOPS Weeksprint NCCC Sprints QRP Fox Hunt	23 K1USN Slow Speed Test	24 ROC City Net 28.405 MHz, 9:00p CW QRS Xmas Activity
25 RAEM Contest DARC Christmas Contest K1USN Slow Speed Test	26 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB DARC Christmas Contest QCX Challenge ICWC Medium Speed Test OK1WC Memorial WW Sideband Activity Contest	27 RTTYOPS Weeksprint Phone Weekly Test QRP Foxhunt SKCC CW Sprint	28 ROC City Net ~3.830 MHz, 7 pm A1 Club AWT CWOps Test Mini Test 40, 80	29 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.205 USB RTTYOPS Weeksprint NCCC Sprints QRP Fox Hunt	30 K1USN Slow Speed Test YOTA Contest	31 ROC City Net 28.405 MHz, 9:00p Bogor Old and New Contest

VE TEAM

Testing takes place on the 3rd Saturday September - April

Dates for 2022: 12/17

Dates for 2023: 1/21, 2/18, 3/18, 4/15

Testing Location

RIT

Rochester Institute of Technology

Building 16 -Schmitt Interfaith Center

43.08402626755475, -77.6734520379509

- Easiest path is from Parking Lot D it can be accessed from West Jefferson Rd via Andrews Memorial Dr or Lowenthal Rd
- From parking lot D walk south up the ramp to the Schmitt Interfaith Center.
- Once inside there is an elevator over to your left or stairs in front of you. Go to the first floor and you will find the Skalny room.

Please Note: this room cannot be accessed from the door under the bridge.

Pre-registration is required visit:

<https://hamstudy.org/sessions/14612/inperson> to find the latest session.

More information is available on the RARA website:

https://rochesterham.org/license_testing.htm

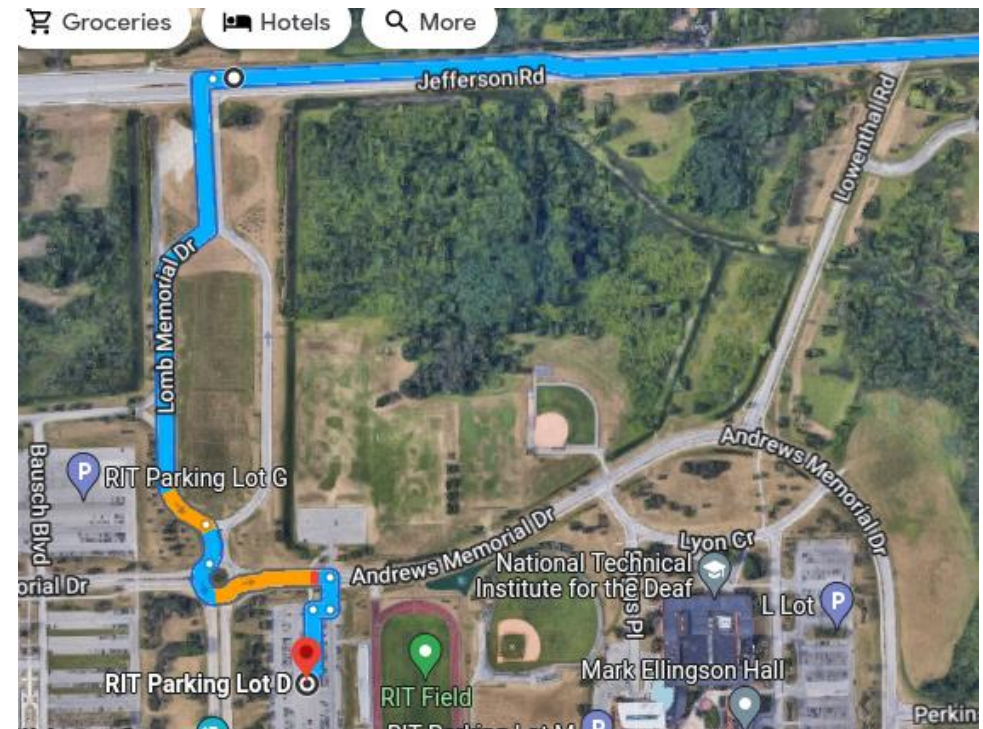
Applicants must supply their own pen, pencil, calculator

Testing begins at 10:00AM.

Also Note: The exam is free however the FCC now charges \$35 for applications. This fee is NOT paid to the VE team. It is paid directly to the FCC. You will receive an email from the FCC when your application is processed. We will also have an information sheet available

Sterwart Allen	T	Linda Blair	T
Lee Boorman	G	Joseph Bove	T
Philip Chapman	T	Jeffrey Cornell	T
Alanna Flowers	T	Magdalena Flowers	T
Theodora Flowers	T	Brett Irwin	T
Matthew Miller	KE2ACE G	Jesse Perkins	T
David Pulhamus	T	Remy Rattner	T

New licensees' names are in BOLD



NEWS FROM AREA CLUBS

MONROE COUNTY ARES / RACES News

Monroe County Amateur Radio Emergency Service (ARES)® is an amateur radio public service organization based in Monroe County, New York, and is open to all licensed amateur radio operators. Monroe County Radio Amateur Civil Emergency Service (RACES) is a program of the Monroe County Office of Emergency Management. We participate in training and emergency exercises so that we can serve other agencies during times of communication failure.



The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month except in July, August, November and December. Anyone interested, members and non-members, are welcome to attend.

Until further notice, our meetings are via Zoom. Please check our website for any schedule changes. Prospective members can request an invitation by email to: secretary@monroecountymcomm.org.

Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 PM, on the N2MPE 146.61 MHz (-) 110.9 Hz PL and 444.45 MHz (+) 110.9 Hz PL repeaters. Our club callsign is WB2EOC.

There is no net on nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountymcomm.org

Facebook: Monroe County Amateur Radio Emergency Service, Inc.

Twitter @MCARESNY

Severe Weather Alerts: Winter may bring severe weather in the form of heavy snowstorms, strong winds, and flooding. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads). We encourage all amateur radio operators to take a free Skywarn TM class offered by the National Weather Service. The schedule of classes can be found at <https://www.weather.gov/buf/skywarn>

Monroe County ARES
George Adams IV, Net Control - cq@k4gwa.net

ROCHESTER DX ASSOCIATION, RDXA

The next meeting will be our annual holiday party - on the normal meeting nite, Tuesday 20 December at Johnny's.



Please check our website www.rdxa.com for up-to-date information regarding meeting locations and requirements, if any.

ROCHESTER RADIO REPEATER ASSOCIATION

Stay tuned to our web site www.k2rra.org for current information.

XRX AMATEUR RADIO CLUB

The XRX Amateur Radio Club is not having in-person meetings at this time. We are having online meetings usually on the second Thursday of the months Sept-June. Get the latest updates at <http://xarc.us>

AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

ARAST held its annual Elmira hamfest on September 24, and we were very glad to have participation from RARA. Thanks to Susan W2SBA and Karl Heinz K5KHK also for their article in last month's Rag! We hope to see some of you at next year's hamfest, which will again be held on the last Saturday of September (September 30, 2023).

Currently, ARAST meets the third Thursday of every month at the Emergency Communications Center on Harris Hill in Big Flats, next to the National Soaring Museum. Our Chemung County ARES (CCARES) organization meets the first Tuesday of the month except February at the same location. Both organizations serve amateurs in Chemung, Steuben and Schuyler counties in New York and Bradford and Tioga counties in Pennsylvania. All are welcome to attend our meetings.

NOTE: Both CCARES and ARAST monthly meetings are now being held both in person and online. Check out the Upcoming Events at our website, www.arast.info, for the latest details.

Don't forget to check out our repeaters when you visit the area. N3AQ 147.36(+) and the W2ZJ 146.70(-) are the principal 2-meter repeaters. The latter can also be accessed via Echolink node 574415 with the call sign KD2QND-R. A full list of repeaters that can be heard in the Twin Tiers area surrounding Chemung County can be found at http://www.arast.info/arast_website/public/repeaters.php.

We also invite you to check out our new 6-meter net on Wednesday evenings at 9 p.m. local time on 50.200 MHz USB. The net usually lasts approximately one

hour. Operators are encouraged to check in and participate in the round table discussions or simply stop by from time to time. Topics are wide-reaching and are not confined to 6 meters--although discussions tend to center around 6-meter equipment, antennas, propagation, latest band openings and grid squares worked, as well as AM, FM and FT-8 use of the 6-meter band. We would welcome more participation from the western part of our area.

COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7PM. Each meeting has a brief training/refresher period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9PM (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30PM on 147.285+. We'd love to hear you check-in!

DRUMLINS AMATEUR RADIO CLUB

The Drumlins Amateur Radio Club meets every third Wednesday of the month at 7:30 PM at the Wayne County EMO/Sheriff's Office 7376 State Hwy 31 #1000, Lyons, NY 14489. Doors open at 7 pm, meeting starts at 7:30 pm. Announcements will be made on the 146.685 repeater. The Drumlins ARC website address is <http://drumlinsarc.us/>

DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communication modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and publicly accessible DSTAR hotspots, Yaesu System Fusion systems on non-club repeaters and DMR systems through repeaters and personal hotspots. DCAP members meet for breakfast at 7AM nearly every Saturday morning at Rikki's Family Restaurant in the village of Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL tone of 110.9Hz.

ROCHESTER VHF GROUP

You are invited to join us on-line & on-the-air! We're here to help you to use the license that you worked so hard to get.



Check out what we do by visiting our website at <http://RVHFG.org> to start.

Join our e-mail group by sending a message to RVHFG+subscribe@groups.io.

**Join our weekly on-the-air nets on SSB:
2 meter band - Monday 9 PM 144.260 USB
6 meter band - Thursday 9 PM 50.205 USB**

**No VHF SSB radio (yet) to join the nets?
Log-in to Echolink [ka2ene-L #23426](#)**

We can help to answer the question, "What radio should I buy?" Here's a list of HF+++ radios, those with the HF bands and at least three VHF bands, giving you access to all sorts of VHF fun. Research each one to see which serves you best. Ask questions on our email list. We're here to help!

Yaesu FT-100D	Yaesu FT-817	Yaesu FT-818
Yaesu FT-847	Yaesu FT-857	Yaesu FT-897
Icom IC-706MKIIG	Icom IC-7000	Icom IC-7100
Icom IC-9100	Kenwood TS-2000	

Some are older models and some are newer models, but all provide access to the 6 meter, 2 meter, and 70 centimeter bands using both traditional FM and the exciting narrow-band SSB mode that supports unexpectedly long-distance (100's of km's routinely and 1,000's of km occasionally) VHF communication. These are good all-around radios no matter what club you end up affiliating with later. We hope its us.

KEUKA LAKE AMATEUR RADIO ASSOCIATION, KLARA

Keuka Lake Amateur Radio Association, KLARA Happy December from Keuka Lake Amateur Radio Association. We are busy planning our Winter Field Days event. This year we will be at Station 2 at the Hammondsport Fire Department in Hammondsport, NY. They said it's heated to 50 F so it's close enough to outdoors!

Congratulations to Belinda Connor KD2BPJ on taking 1st place in the NY QSO Party YL division for 2021.

Joel KC2VAW and Donna KD2CZY are busy doing POTA. Look for them and make contacts!

We are happy to announce a Winter HAMFEST February 4 at the Almond, NY Community Center. It will be open to the public at 8 a.m. and vendors at 7 a.m. The location has heat and electricity with lots of room for parking. For more information contact Rick W2RMT or email KLARA. It will be free for vendors and visitors and we will be offering VE testing at 10 a.m. (pre-register) and of course coffee pots on for donations. We are still in the planning stages but the date and location is locked in. A poster will be coming out soon.

Announcing the new Hump Day KLARA Net, Wednesday night 7 p.m. 2 meter on the KLARA Repeater system and Echolink. Come join in the fun! There's no net control—just have a fun time using the repeaters. Sunday nights at 8 p.m. is the KLARA weekly net on our repeater system and Echolink. Check in and play trivia with us. The Sunday-Friday HF net on 3.896MHz check in begins at 8:30 AM and the net starts at 8:45 AM. It's a great round table net starting with introductions then topic of anyone's choice. Just great camaraderie on the radio.

Our meetings are the 2nd Wednesday at 7 p.m. at the VFW in Bath. Stop in and stay for the meeting. We love to have visitors!

ORLEANS COUNTY AMATEUR RADIO CLUB

The Orleans County ARC meets every 2nd Monday of the month at the Orleans County Emergency Operations Center, 14064 West County House Road, Albion, NY 14411. Doors open at 6:00PM, meeting starts at 7:30PM. Anyone with an interest in amateur radio is welcome. Program topics vary from month to month.

The club has an open two-meter net every Tuesday night at 9:00PM local time on the club repeater, WA2DQL/R (145.27 -600KHz offset, 141.3 tone). Everyone is welcome to check in.

See the club website <http://ocarc.us> or contact club Secretary Ron Craig, N5BNO for more information.

SKENOH ISLAND AMATEUR RADIO CLUB, SIARC

The Skenoh Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30 p.m. at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30 p.m. The next meeting will be the annual Christmas party at the AWA Facility in Bloomfield on Wednesday December 14 starting at 6:00 p.m. Pizza and soft drinks will be provided. Please bring individual place settings and an appetizer or dessert to pass. There will be a tour of the AWA Facility.

SIARC is also holding a Health and Welfare NET Monday through Friday each week at 8:00 p.m. on the SIARC 146.820 repeater (located in Canandaigua, NY), Tone 110.9. This net is to pass along general information and keep hams in touch. All hams are invited to participate.

THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

THE RADIO AMATEUR IS:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC	With station and skill always ready for service to country and community.

RARA OFFICERS, DIRECTORS AND COORDINATORS

OFFICERS

President: Scott Theis, W2LW	(845) 774-9809	president@rochesterham.org	Treasurer: Mike Moore, KC2NM	(585) 721-0011	treasurer@rochesterham.org
Vice-President: Tim Barrett, K9VB	(646)496-5015	vicepresident@rochesterham.org	Secretary: Brian O'Connor, KA2CGB	(585) 721-2346	secretary@rochesterham.org

DIRECTORS

Richard Bishopp, KD2UBJ	(585) 766-5631	rbishopp44@gmail.com	Karl Heinz Kremer, K5KHK	(585) 210-0840	k5khk@khk.net
Tim Guyot, KB1POP	(585) 406-3163	timguyot@gmail.com	Dave Wilson, WA2HOY	(585) 200-4447	davidrw@rochester.rr.com
Mike Kennerknecht, N2MAK	(585) 754-2444	maken-nerknecht@gmail.com			

ACTIVITY COORDINATORS

Club Historian	Ed Gable, K2MP	egable@rochester.rr.com	Online Meetings	Scott Theis, W2LW	sa_theis@hotmail.com
Club Station Trustee	Dave Enright, K3WHD	denright1228@gmail.com	Public Service	Mike Moore, KC2NM	publicservice@rochesterham.org
Education Coordinator	Karl Heinz Kremer, K5KHK	education@rochesterham.org	QSL MANAGER	Dave Enright, K3WHD	denright1228@gmail.com
Elmers' Corner	Richard Bishopp, KD2UBJ Suzanne Bishopp, W2SUZ	elmerscorner@education.org	Raffle Administrators	Forest Shick, WA2MZG Jeff Sonstein, WA2RRB	wa2mzg@arrl.net
Groups.io Moderators	Tim Barrett, K9VB Karl Heinz Kremer, K5KHK	tim.k9vb@gmail.com k5khk@khk.net	RARA Academy	Kevin Denton, KD2WXS	academy@rochesterham.org
Hamfest Co-Producers	Tim Guyot, KB1POP Mike Moore, KC2NM Dave Mitchell, KD2RAF	hfprouder@rochesterham.org	RARA RAG Editors	Forest Shick, WA2MZG Mike Kennerknecht, N2MAK Susan Aiello, W2SBA Dave Wilson, WA2HOY Mark Pedersen, KC2UES	editor@rochesterham.org
License Testing Coordinator	Don Kiser, AC2EV	dkiser100@gmail.com	Proof Readers		
Media Communications	Tim Guyot, KB1POP	timguyot@gmail.com	Refreshments	Rich Hoffarth, K2AXP	rhoffarth2000@yahoo.com
Meeting Audio	Joe DiVincenzo, AD2DB Scott Czeck, KC1GHT	joedy58@gmail.com scottczeck@gmail.com	Reward Points Administrator	Tim Barrett, K9VB	membership@rochesterham.org
Membership Secretary	Tim Barrett, K9VB	membership@rochesterham.org	Telephone Hotline	Scott Theis, W2LW	sa_theis@hotmail.com
			Webmaster	Scott Theis, W2LW	webmaster@rochesterham.org

ROCHESTER AREA RADIO CLUB CONTACTS

Amateur Radio Association of the Southern Tier (ARAST)

Reiner Dieg, N2PEZ: n2pez@arrl.net

Antique Wireless Association (AWA)

Lynn Bisha, W2BSN: lynnbisha@gmail.com

Astronomy Section Rochester Academy of Science

Mark Minarich: mminaric@rochester.rr.com

Community Amateur Radio Club (CARC)

Joe Gangi, AC2NB: ac2nb.carc@gmail.com

Digital Communications Association of Perinton (DCAP)

Gary Skuse, KA1NJL: ka1njl@arrl.net

Drumlins Amateur Radio Club Ltd. (DARC)

drumlinsarc@gmail.com

Genesee Valley Amateur Radio Assn.

Bill Boyd, N3DSP: N3DSP@lafireline.net

Keuka Lake Amateur Radio Association (KLARA)

Jim Caneen, W2JTC: jcpilot@localnet.com

Monroe County ARES / RACES

Dave Timmons, W2DST: secretary@monroecountyemcomm.org

Orleans County Amateur Radio Club (OCARC)

Terry Cook, K2EYS: k2eys@ocarc.us

Rochester Amateur Radio Association (RARA)

Tim Barrett, K9VB: president@rochesterham.org

ROC City Net

Joe Merolillo, K2ZX: k2zx52@gmail.com

Rochester DX Association (RDXA)

Chris Shalvoy, K2CS: cshalvoy@att.net

Rochester Institute of Technology ARC

Jim Stefano, W2COP: wireless@mail.rit.edu

Rochester Radio Repeater Association (RRRA)

Bob Shewell, N2HJD: bshewell@frontiernet.net

Rochester VHF Group (RVHFG)

Rus Healy, K2UA: chairman@rvhfg.org

Skenoh Island Amateur Radio Club (SIARC)

Steve Benton, WB2VMR: sbenton2@rochester.rr.com

West Side Amateur Radio Club

XRX Amateur Radio Club

Brian Donovan, K2AS: k2as@outlook.com

Rochester Makerspace

David Duckles: rocmakers@gmail.com

JANUARY RAG DEADLINE

DECEMBER 15, 2022

**RARA MEETS AT 7PM ON THE FIRST
WEDNESDAY OF EACH MONTH.**

**JOIN US IN PERSON
OR
ONLINE AT:**

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